

STATEMENT OF WORK

1. Objective/Requirements

NASA Johnson Space Center (JSC) requires continued Atlas Devices Counterweight-Offload Astronaut Sensor, Telemetry & Electronics Rig (COASTER) Support Services to support suited and unsuited gravity offload testing. COASTER is a connected sensor/suit telemetry and offload system used with space suits to create simulated gravity environments for lunar and Martian operational concept development, hardware evaluation, and Human-In-The-Loop (HITL) testing, with two independent arms capable of facilitating separate tests.

Commercially provided support services are required to mitigate overloading of test support organizations and TRR personnel infrastructure, both of which are currently overbooked at JSC. The xEVA Systems/Artemis Program have identified FY27-FY28 as critical periods for gravity offload testing in support of Artemis surface missions, including Sortie Suit qualification testing ahead of Artemis IV.

Effective October 1, 2026, the Space Vehicle Mockup Facility (SVMF) assumed operational ownership of COASTER. Atlas Devices has transitioned from the primary operator to a vendor support role, providing on-call technical assistance, maintenance support, and subject matter expertise while SVMF operators and test directors complete on-the-job training (OJT) toward full operational proficiency.

2. Characteristics, Scope, and Specs

The Contractor shall provide COASTER Operations Days (single-arm and dual-arm, all-inclusive), remote TRR support (person-days, no travel), and Atlas EXCON Suit v4 rental as needed to support test events.

Operations Day All-Inclusive includes COASTER operation and supervision, test initiation, equipment checks, structural and electrical integrity verification, calibration, safety, inventory and function checks for COASTER telemetry system, hardware, and suit/harness interfaces, pre- and post-run full system maintenance including materials, travel as required, and on-site communication.

TRR Support includes TRR preparation, hazard analysis support from initial establishment through test-specific updates, TRR call participation as System Representative for COASTER (remote), and action close-outs.

A person-day is defined as one person working one full 8-hour day. Multiple Operations Days All-Inclusive apply when personnel must travel to JSC and work more than one day. Atlas shall provide OJT support and technical mentorship to SVMF operators and test directors as they progress toward full operational proficiency.

Part #	Description	Qty
16574	BASE - Atlas Eng/TRR Support - 1 Person-day No Travel	30
16576	BASE - Atlas EXCON Suit v4 Rental - Daily (BASE)	5
17874	OPTION 1 - COASTER Dual -Arm Operations Day All Inclusive	1
17874	OPTION 2 - COASTER Dual -Arm Operations Day All Inclusive	1
17873	OPTION 3 - COASTER Single Arm Operations Day All Inclusive	1
17873	OPTION 4 - COASTER Single Arm Operations Day All Inclusive	1
17873	OPTION 5 - COASTER Single Arm Operations Day All Inclusive	1
17873	OPTION 6 - COASTER Single Arm Operations Day All Inclusive	1
16574	OPTION 7 - Atlas Eng/TRR Support - 1 Person-day No Travel	20
16574	OPTION 8 - Atlas Eng/TRR Support - 1 Person-day No Travel	10
16574	OPTION 9 - Atlas Eng/TRR Support - 1 Person-day No Travel	10
16574	OPTION 10 - Atlas Eng/TRR Support - 1 Person-day No Travel	10
16574	OPTION 11 - Atlas Eng/TRR Support - 1 Person-day No Travel	5
16574	OPTION 12 - Atlas Eng/TRR Support - 1 Person-day No Travel	5
16574	OPTION 13 - Atlas Eng/TRR Support - 1 Person-day No Travel	5
16574	OPTION 14 - Atlas Eng/TRR Support - 1 Person-day No Travel	5
16576	OPTION 15 - Atlas EXCON Suit v4 Rental - Daily	2
16576	OPTION 16 - Atlas EXCON Suit v4 Rental - Daily	2
16576	OPTION 17 - Atlas EXCON Suit v4 Rental - Daily	1
	Shipping - Delivery	1

3. Place of Performance

NASA Johnson Space Center
2101 E NASA Pkwy
Houston, TX 77058

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4. Period of Performance

12 Months ARO